



1. Construction

1.- CONDUCTOR: ANNEALED STRANDED COPPER WIRES:

- <=16 Stranded copper conductor, According to IEC 60228 Class 2
- > 16 Fine Stranded copper conductor, According to IEC 60228 Class 5

2.- INSULATION: Mica/Glass tape(s) + XLPE compound, according to IEC 60092-360

3.- LAY-UP of Cores

4.- SEPERATION TAPES: if necessary

5.- OVERSHEATH: LSZH COMPOUND SHF1 TYPE , according to IEC 60092-360, ORANGE COLOUR

6.- MARKING:

Class 2 Conductor ; []PRYSMIAN -AFUMEX MARINE CABLES - **PF (1J2XZ1-R/LM-FRHF)** nc X sect mm² - 0,6/1 kV - IEC 60092-353 - IEC 60332-3/A - IEC 60331+ YEAR + metric marking (by ink)

Class 5 Conductor ; []PRYSMIAN -AFUMEX MARINE CABLES - **PFB (1J2XZ1-R/LM-FRHF)** nc X sect mm² - 0,6/1 kV - IEC 60092-353 - IEC 60332-3/A - IEC 60331+ YEAR + metric marking (by ink)

[] Production Plant Code

2. Technical Characteristics

Characteristics	Standard & Value
Design standard:	IEC 60092-353
Voltage rating:	0,6/1 kV
Maximum conductor temperature:	90 °C
Minimum bending radius:	4 D
Installation Temperature Range	-15°C to 55°C
Fixed Installation operation temperature	-40°C to 55°C

3. Additional requirements

4. Colour Code of insulation

Flame retardant: IEC 60332-1	2x Blue-Brown
Fire propagation: IEC 60332-3-22 (Cat.A)	3x Grey-Black-Brown
	3G Blue-Brown-Green/Yellow
Smoke Density: IEC 61034 1/2	4x Grey-Black-Brown-Blue
	4G Grey-Black-Brown-Green/Yellow
Amount of Halogen Acid Gas : IEC 60754-1/2	5x All Core BLACK with WHITE number printed
	5G Grey-Black-Brown-Blue-Green/Yellow
	>5x All Core BLACK with WHITE number printed

Technical Datasheet

Date: 19/11/2019

Rev No. 5

RD-MAR/19-04-10a

General			Constructional Data					Shipping		Electrical Data	
CABLE TYPE	CROSS SECTION	RATED VOLTAGE	NOMINAL INSULATION THICKNESS	NOMINAL DIAMETER OF BRAID WIRE ARMOUR	APPROX. DIAMETER OVER ARMOUR	NOMINAL OVERSHEATH THICKNESS	APPROX. EXTERNAL DIAMETER	APPROX. MASS OF CABLE	NOMINAL SHIPPING LENGTH	MAX. DC RESISTANCE AT 20 °C	APPROX. REACTANCE AT 50HZ TREFOIL FORMATION
	mm ²		mm	mm	mm	mm	mm	kg/km	m	ohm/km	ohm/km
PF (1J2XZ1-R/LM-FRHF)	1x4	0,6/1 kV	0,7	N.A	N.A	1,0	8,0	81	1000	4,61	0,097
PF (1J2XZ1-R/LM-FRHF)	1x6	0,6/1 kV	0,7	N.A	N.A	1,0	9,0	110	1000	3,08	0,091
PF (1J2XZ1-R/LM-FRHF)	1x10	0,6/1 kV	0,7	N.A	N.A	1,0	9,0	150	1000	1,83	0,087
PF (1J2XZ1-R/LM-FRHF)	1x16	0,6/1 kV	0,7	N.A	N.A	1,0	10,0	210	1000	1,15	0,082
PFB (1J2XZ1-K/LM-FRHF)	1x25	0,6/1 kV	0,9	N.A	N.A	1,1	12,0	320	1000	0,78	0,080
PFB (1J2XZ1-K/LM-FRHF)	1x35	0,6/1 kV	0,9	N.A	N.A	1,1	14,0	420	1000	0,554	0,077
PF (1J2XZ1-R/LM-FRHF)	2x1,5	0,6/1 kV	0,7	N.A	N.A	1,1	10,0	130	1000	12,1	0,112
PF (1J2XZ1-R/LM-FRHF)	3x1,5	0,6/1 kV	0,7	N.A	N.A	1,1	11,0	150	1000	12,1	0,112
PF (1J2XZ1-R/LM-FRHF)	3x2,5	0,6/1 kV	0,7	N.A	N.A	1,1	12,0	190	1000	7,41	0,104
PF (1J2XZ1-R/LM-FRHF)	3x4	0,6/1 kV	0,7	N.A	N.A	1,2	13,0	255	1000	4,61	0,097
PF (1J2XZ1-R/LM-FRHF)	3x6	0,6/1 kV	0,7	N.A	N.A	1,2	14,0	330	1000	3,08	0,091
PF (1J2XZ1-R/LM-FRHF)	3x10	0,6/1 kV	0,7	N.A	N.A	1,3	16,0	470	1000	1,83	0,087
PF (1J2XZ1-R/LM-FRHF)	3x16	0,6/1 kV	0,7	N.A	N.A	1,3	19,0	662	1000	1,15	0,082
PFB (1J2XZ1-R/LM-FRHF)	3x25	0,6/1 kV	0,9	N.A	N.A	1,5	24,0	1064	1000	0,78	0,080
PFB (1J2XZ1-K/LM-FRHF)	3x35	0,6/1 kV	0,9	N.A	N.A	1,6	27,0	1450	1000	0,554	0,077
PFB (1J2XZ1-K/LM-FRHF)	3x50	0,6/1 kV	1,0	N.A	N.A	1,7	31,0	2005	1000	0,386	0,075
PFB (1J2XZ1-K/LM-FRHF)	3x70	0,6/1 kV	1,1	N.A	N.A	1,8	35,0	2690	1000	0,272	0,073
PFB (1J2XZ1-K/LM-FRHF)	3x95	0,6/1 kV	1,1	N.A	N.A	2,0	39,0	3430	1000	0,206	0,072
PFB (1J2XZ1-K/LM-FRHF)	3x120	0,6/1 kV	1,2	N.A	N.A	2,1	43,0	4300	500	0,161	0,071
PFB (1J2XZ1-K/LM-FRHF)	3x150	0,6/1 kV	1,4	N.A	N.A	2,3	47,0	5261	500	0,129	0,072
PF (1J2XZ1-R/LM-FRHF)	4x1,5	0,6/1 kV	0,7	N.A	N.A	1,1	12,0	180	1000	12,1	0,112
PF (1J2XZ1-R/LM-FRHF)	4x2,5	0,6/1 kV	0,7	N.A	N.A	1,1	13,0	230	1000	7,41	0,104
PF (1J2XZ1-R/LM-FRHF)	4x4	0,6/1 kV	0,7	N.A	N.A	1,2	14,0	310	1000	4,61	0,097
PF (1J2XZ1-R/LM-FRHF)	4x6	0,6/1 kV	0,7	N.A	N.A	1,2	16,0	405	1000	3,08	0,091
PF (1J2XZ1-R/LM-FRHF)	5x1,5	0,6/1 kV	0,7	N.A	N.A	1,1	13,0	210	1000	12,1	0,120
PF (1J2XZ1-R/LM-FRHF)	5x2,5	0,6/1 kV	0,7	N.A	N.A	1,2	14,0	275	1000	7,41	0,111
PF (1J2XZ1-R/LM-FRHF)	7x1	0,6/1 kV	0,7	N.A	N.A	1,1	15,0	220	1000	18,1	0,128
PF (1J2XZ1-R/LM-FRHF)	7x1,5	0,6/1 kV	0,7	N.A	N.A	1,2	16,0	270	1000	12,1	0,120
PF (1J2XZ1-R/LM-FRHF)	10x1	0,6/1 kV	0,7	N.A	N.A	1,2	19,0	310	1000	18,1	0,128
PF (1J2XZ1-R/LM-FRHF)	10x1,5	0,6/1 kV	0,7	N.A	N.A	1,3	20,0	380	1000	12,1	0,120
PF (1J2XZ1-R/LM-FRHF)	19x1	0,6/1 kV	0,7	N.A	N.A	1,3	23,0	530	1000	18,1	0,128
PF (1J2XZ1-R/LM-FRHF)	19x1,5	0,6/1 kV	0,7	N.A	N.A	1,4	25,0	640	1000	12,1	0,120